U.S. ENVIRONMENTAL PROTECTION AGENCY
POLLUTION/SITUATION REPORT
Raritan Bay Slag Site - Remedial - Removal Polrep

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region II

Subject: **POLREP #2**
Progress
Raritan Bay Slag Site - Remedial
A205
Old Bridge, NJ
Latitude: 40.4543218 Longitude: -74.2381070

To: Peter Lopez, ORA
Angela Carpenter, ERRD
Dan Harkay, ERRD
Tanya Mitchell, ERRD
Stephanie Vaughn, ERRD
Michael Vanitallie, ORC

From: Andrew L. Confortini, OSC
Date: 7/21/2017
Reporting Period: March 30, 2017 to July 21, 2017

1. Introduction

1.1 Background

Site Number:	A205	**Contract Number:**	EP-S2-15-02
D.O. Number:	D.O.#47/#54	**Action Memo Date:**	
Response Authority:	CERCLA	**Response Type:**	
Response Lead:	EPA	**Incident Category:**	
NPL Status:	NPL	**Operable Unit:**	
Mobilization Date:	2/21/2017	**Start Date:**	2/21/2017
Demob Date:		**Completion Date:**	
CERCLIS ID:	NJN000206276	**RCRIS ID:**	
ERNS No.:		**State Notification:**	
FPN#:		**Reimbursable Account #:**	

1.1.1 Incident Category

On-going release of heavy metals into adjacent soil, wetlands and water. The source of the heavy metals are related to the waste created during the recovery of lead from used batteries. The waste is primarily in the form of slag and battery casings. This waste was used as fill in the Margaret's Creek portion of the Site. The presence of this waste has been confirmed and will be removed and disposed off-site. This work is being performed as a Remedial Action pursuant to the Record of Decision (ROD) for the Site.

1.1.2 Site Description

The Margaret's Creek Sector of the Raritan Bay Slag Site is approximately 47-acres of open space consisting of wetland and upland areas. Portions of the upland area is filled with slag and battery casings. The slag was brought to the Site approximately 50 years ago.

1.1.2.1 Location

The Margaret's Creek Sector of the Raritan Bay Slag Site is located between the Laurence Harbor and Cliffwood Beach sections of Old Bridge Township, Middlesex County, New Jersey.

1.1.2.2 Description of Threat

EPA has conducted multiple sampling events at the Site since 2008 under both the removal and remedial programs. The sampling activities included the collection of soil, sediment, water, and waste samples within the Margaret's Creek Sector. Analytical results generated by EPA indicate that significantly elevated levels of lead and other heavy metals are present in the soils and sediment. Analytical results for surface soil samples collected within the Margaret's Creek Sector were as high as: 78,000 mg/kg for lead. Representative samples of the excavated wastes generated during previous mitigation work have exceeded the Resource Conservation and Recovery Act Toxicity Characteristic Leaching Procedure limit for lead (5 mg/l).

1.1.3 Preliminary Remedial Assessment/Remedial Site Inspection Results

Information pertaining to the assessment and Site inspection results can be found in the Record of Decision (ROD) and the Final Design Analysis Report (DAR) for the Site, which are available through the Remedial Project Manager and website established for this Site.

2. Current Activities

2.1 Operations Section

2.1.1 Narrative

The overall approach to this Remedial Action is to remove crushed battery casings, slag and lead-contaminated soil to prevent the direct contact threat to the public and the migration of contaminated materials to adjacent wetlands, and public recreation areas.

As part of this approach, contaminated soil, slag, and debris is being excavated and stockpiled on a 30 mil HDPE impermeable liner. Stockpiled waste material are then screened to remove slag, rocks, and debris larger than 6-inches in size. The screening process results in two waste streams; 1) waste larger than 6-inches consisting primarily of slag and 2) waste less than 6-inches consisting primarily of soil, battery casings and smaller pieces of slag. Slag waste larger than 6-inches cannot be properly stabilized and must be crushed prior to treatment.

2.1.2 Response Actions to Date

Response actions completed prior to March 30, 2017 can be found in POLREP#1 dated April 5, 2017. The following actions have been completed during this reporting period:

* Response actions in support of the Remedial Action included delineation soil sampling events in April 2017 and May 2017. During each of these events, samples were collected for the purpose of defining the horizontal and vertical extent of lead contamination within areas of concern identified in the DAR. Concurrent to delineation sampling, 2,800 tons of certified clean stone and 2,000 tons of certified clean backfill was delivered and staged on-site for future use. Both types of backfill were sampled prior to delivery and meet New Jersey Department of Environmental Protection criteria for residential settings.

* On July 10, 2017, contractor personnel and equipment were mobilized to the Site to finish installation of erosion control devices, construction of the waste staging area, road stabilization, application of dust control solution to Site roads, delivery of supplies and preparing for the excavation of slag waste from AOC-H. Excavation of waste material from AOC-H and AOC-E began on July 20, 2017 and is on-going.

* On July 11, 2017, the initial weekly field progress meeting was held with the Remedial Project Manager (RPM).

* Perimeter air monitoring, in accordance with the Community Air Monitoring Plan (CAMP), began on July 14, 2017. The setup and collection of air monitoring samples is being conducted by Weston Solutions, Inc. Air monitoring is being conducted on a daily basis when weather conditions permit. Weekly air monitoring summary reports are being provided to EPA and maintained on-site. No significant air exceedances were reported during the work day monitoring periods.

* On-site security services, during non-working Site hours, began on July 19, 2017.

* Personal air monitoring on contractor operators and laborers began on July 20, 2017 and is being conducted by Environmental Restoration, LLC (ER). ER is EPA's emergency and rapid response services (ERRS) contractor for this project.

* Excavation of slag and soil from AOC-H began on July 20, 2017 and generated approximately 500 cubic yards of waste material. This material was stockpiled in the staging area for screening and disposal.

2.1.3 Enforcement Activities, Identity of Potentially Responsible Parties (PRPs)

Enforcement activities are being managed by the Remedial Program.

2.1.4 Progress Metrics

Not Applicable at this time.

Waste Stream	*Medium*	*Quantity*	*Manifest #*	*Treatment*	*Disposal*

2.2 Planning Section

2.2.1 Anticipated activities for the next reporting period

2.2.1.1 Planned Response Activities

* Continue excavation, segregation and stockpiling activities in AOC-H, E and F.
* Continue perimeter air monitoring in accordance with the Community Air Monitoring Plan (CAMP).
* Delivery of additional supplies and equipment.
* Loading waste for off-site disposal.
* Excavation and stockpiling of slag, battery casings and soil.
* Collection of delineation and post-excavation soil samples.
* Backfilling portions of the excavations that have met Site Remediation Goals.

2.2.1.2 Next Steps

* Preparation of the weekly air monitoring report.
* Conducting the weekly progress meeting with the RPM.

2.2.2 Issues

The sequencing of excavation activities has deviated from the Design Analysis Report (DAR). Excavation work will proceed as follows: AOC H, E, U, V, W, S, Q, P, O, F, I, G, M, N, K, L/Y2, X1, X2, X3, Z and A.

Significant rainfall events may affect operations if the water level in Margaret's Creek rise and begin to back up onto the low-lying portions of the Site.

2.3 Logistics Section

No information available at this time.

2.4 Finance Section

2.4.1 Narrative

On September 9, 2016, $7,000,000 was allocated to the regional Emergency & Rapid Response Services (ERRS) contract for this project. On February 6, 2017, an additional $6,550,000 was added to the existing funding for the Remedial Action.

Funding for the Removal Support Team (RST) was allocated on October 27, 2016 ($200,000) and February 6, 2017 ($450,000).

Estimated Costs *

	Budgeted	Total To Date	Remaining	% Remaining
Extramural Costs				
ERRS - Cleanup Contractor	$13,550,000.00	$314,000.00	$13,236,000.00	97.68%
RST/START	$650,000.00	$58,000.00	$592,000.00	91.08%
Intramural Costs				
Total Site Costs	$14,200,000.00	$372,000.00	$13,828,000.00	97.38%

* The above accounting of expenditures is an estimate based on figures known to the OSC at the time this report was written. The OSC does not necessarily receive specific figures on final payments made to any contractor(s). Other financial data which the OSC must rely upon may not be entirely up-to-date. The cost accounting provided in this report does not necessarily represent an exact monetary figure which the government may include in any claim for cost recovery.

2.5 Other Command Staff

2.5.1 Safety Officer
None
2.5.2 Liaison Officer
None
2.5.3 Information Officer
None

3. Participating Entities

3.1 Unified Command

3.2 Cooperating Agencies
: New Jersey Department of Environmental Protection;
: Middlesex County Parks and Recreation;
: Middlesex County Mosquito Commission;
: Middlesex County Utilities Authority;
: Old Bridge Township Municipal Utilities Authority;
: Old Bridge Township Parks and Recreation.

4. Personnel On Site

EPA OSC
EPA RPM
ERRS Contractor (6-7 personnel)
RST 3 Contractor (1-2 personnel)

5. Definition of Terms

Not Applicable

6. Additional sources of information

6.1 Internet location of additional information/report
Not Applicable
6.2 Reporting Schedule
Not Applicable

7. Situational Reference Materials

Not Applicable